

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 January 2005 (06.01.2005)

PCT

(10) International Publication Number  
**WO 2005/000121 A1**

(51) International Patent Classification<sup>7</sup>: **A61B 6/03**

(21) International Application Number:  
PCT/IB2004/001968

(22) International Filing Date: 28 May 2004 (28.05.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/483,739 30 June 2003 (30.06.2003) US

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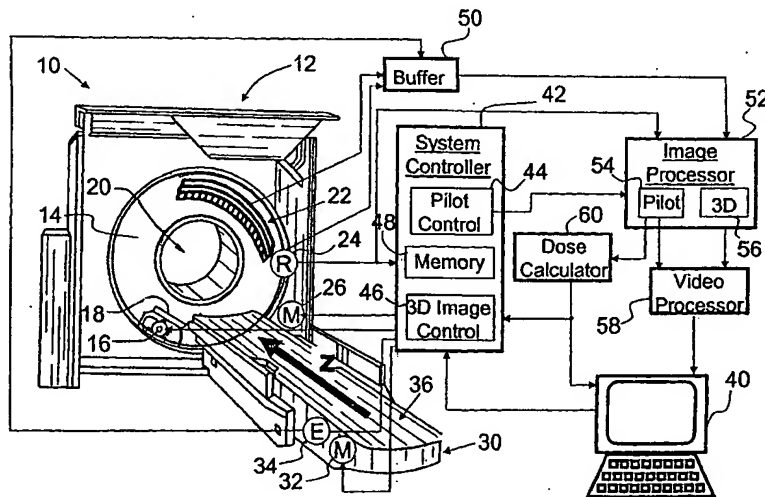
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:  
— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **CONTOUR AND SCOUT SCANNING TECHNIQUE FOR PULSED X-RAY LARGE AREA CT DETECTORS**



(57) Abstract: A diagnostic imaging system includes an x-ray source (16), which is rotated around an examination region (20). A subject, disposed on a couch (30), is translated longitudinally through the examination region (20). The x-ray source (16) is pulsed at selected angular location(s), e.g. one or both of 6 and 12 o'clock, to transmit x rays through the subject as it is being translated through the examination region (20). The transmitted radiation is being detected by a radiation detector (22) and is reconstructed by an image processor (52) into a two-dimensional projection pilot scan image. A subject contour is calculated and is used along with the radiation attenuation data by a dose calculator (60) to determine the minimum radiation dose required to produce a constant quality image.

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